



TH 94 - 35E (Capitol Approach)
SPAR M-227

Transportation Analysis

State of Minnesota
Department of Transportation

Bureau of Policy and Planning

DEPARTMENT OF TRANSPORTATION
Room 813

Office Memorandum

TO : Merritt Linzie
Assistant District Director
District 9 - Oakdale

DATE: April 11, 1979

FROM : *Kenn Kopitzke*
Kenn Kopitzke, Coordinator
Transportation Forecasts Section

PHONE: 6-6759

SUBJECT: TH 94 - 35E (Capitol Approach)
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Estimated 2002 ADT and peak hour volumes for TH 94 and TH 35E at the "Capitol Approach" in St. Paul are enclosed. Volumes shown are based on the Metropolitan Council's year 2000 zone level trip tables assigned to network 2-A. A point-to-point description of movements through a portion of the study area has been included.

System 2-A has TH 35E in St. Paul constructed as a freeway between W. 7th and TH 94. Two possible changes in the system have been tested for this study: (1) a parkway constructed on the TH 35E right-of-way with no direct connection to TH 94 (System 2-D), and (2) no construction on the TH 35E right-of-way. Both of these alternate systems show a reduction of over 10,000 trips each way in the year 2002 on the TH 94-TH 35E common section but changes on other segments of the two freeways are of lesser magnitude.

This report also contains a schematic turning movement form showing 2002 volumes on a full diamond interchange at Mounds Blvd. and TH 94, assuming that the 6th Street ramps to TH 94 are closed. Analysis of "loaded link" data on the 6th Street ramps indicates that most of the traffic using these ramps would be able to shift to Mounds Blvd. without experiencing much adverse travel distance. The 3000 trips each way that were not reassigned from 6th to Mounds would be expected to gain access to TH 94 either at Lafayette or at East 7th near the St. Paul CBD.

Volumes on many of the freeway on and off ramps for 2002 are at or below current levels. The traffic estimates for 1982 and 1992 thus cannot differ substantially from the year 2002 volumes. The 1982 volumes can be obtained by multiplying 2002 by 0.87 and the 1992 volumes by 0.94.

A one hour average of the high eight hours of the average day can be obtained by multiplying the ADT by .065.

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YEAR 2002 POINT TO POINT

	To	1	2	4	5	6	7	9	10
1	From 3	-	-	-	-	-	17000	-	-
2	A						1630		
3	P						1670		
4	4	3000	-	-	-	-	-	-	-
5	A	230							
6	P	340							
7	5	-	-	1500	-	-	-	500	3500
8	A			120				30	230
9	P			240				80	440
10	6	-	-	-	-	-	-	-	-
11	A								
12	P								
13	8	7000	10000	-	-	-	-	500	1500
14	A	870	800					50	160
15	P	630	1000					30	110
16	9	-	-	-	500	-	500	-	1000
17	A				80		30		60
18	P				30		50		80
19	10	1500	-	1500	2000	-	1500	1000	-
20	A	110		110	330		110	80	
21	P	100		100	130		160	60	
22	11	9000	-	-	-	1000	1000	-	-
23	A	990				200	70		
24	P	620				50	120		
25	12	-	-	-	-	-	-	-	-
26	A								
27	P								
28	13	2500	-	-	-	-	-	-	-
29	A	290							
30	P	170							
31	15	23000	5000	-	-	2500	2000	-	-
32	A	2830	600			380	250		
33	P	1600	500			150	160		
34	16	-	-	-	-	-	-	-	-
35	A								
36	P								
37	TOT	42000	15000	3000	2500	3500	22000	2000	6000
38	A	4920	1400	230	410	580	2090	160	450
39	P	3190	1500	340	160	200	2160	170	630
40									

SPAR M-227 YEAR 2002 POINT TO POINT

To	11	12	13	14	16	TOTAL
From						
3	9000	-	2500	28000	-	54000
A	620	-	170	2100	-	4350
P	990	-	290	3430	-	6090
4	-	-	-	-	-	3000
A	-	-	-	-	-	230
P	-	-	-	-	-	340
5	-	-	-	-	-	5500
A	-	-	-	-	-	380
P	-	-	-	-	-	760
6	1000	-	-	2500	-	3500
A	50	-	-	150	-	200
P	200	-	-	380	-	580
8	1000	-	-	2000	-	22000
A	120	-	-	160	-	2160
P	70	-	-	250	-	2090
9	-	-	-	-	-	2000
A	-	-	-	-	-	170
P	-	-	-	-	-	160
10	-	-	-	-	-	6000
A	-	-	-	-	-	630
P	-	-	-	-	-	450
11	-	-	-	-	-	11000
A	-	-	-	-	-	1260
P	-	-	-	-	-	790
12	-	-	3000	2000	500	5500
A	-	-	200	140	40	380
P	-	-	450	300	60	810
13	-	3000	-	1000	-	6500
A	-	450	-	70	-	810
P	-	200	-	150	-	520
15	-	2000	1000	-	1000	36500
A	-	300	150	-	120	4630
P	-	140	70	-	80	2700
16	-	500	-	1000	-	1500
A	-	60	-	80	-	140
P	-	40	-	120	-	160
TOT	11000	5500	6500	36500	1500	
A	790	810	520	2700	160	
P	1260	380	810	4630	140	

Mn/DOT 29131 (6-78)

SCHEMATIC TURNING MOVEMENT

Year 2002 Traffic Volumes

City or County ST. PAUL

Location MOUNDS and TH 94

System 2A

SPAR M-227 Date 3-79

DATA SOURCE:

Computer Output

Analysis

Traffic Count

COMMENTS: Assumes 6th St. ramps closed.

The other 3000 Trips assigned to 6th
divert to E. 7th: 1000 Turn south at
TH 3, 2000 enter TH 94 at E. 7th ramps.





